FIG. 1

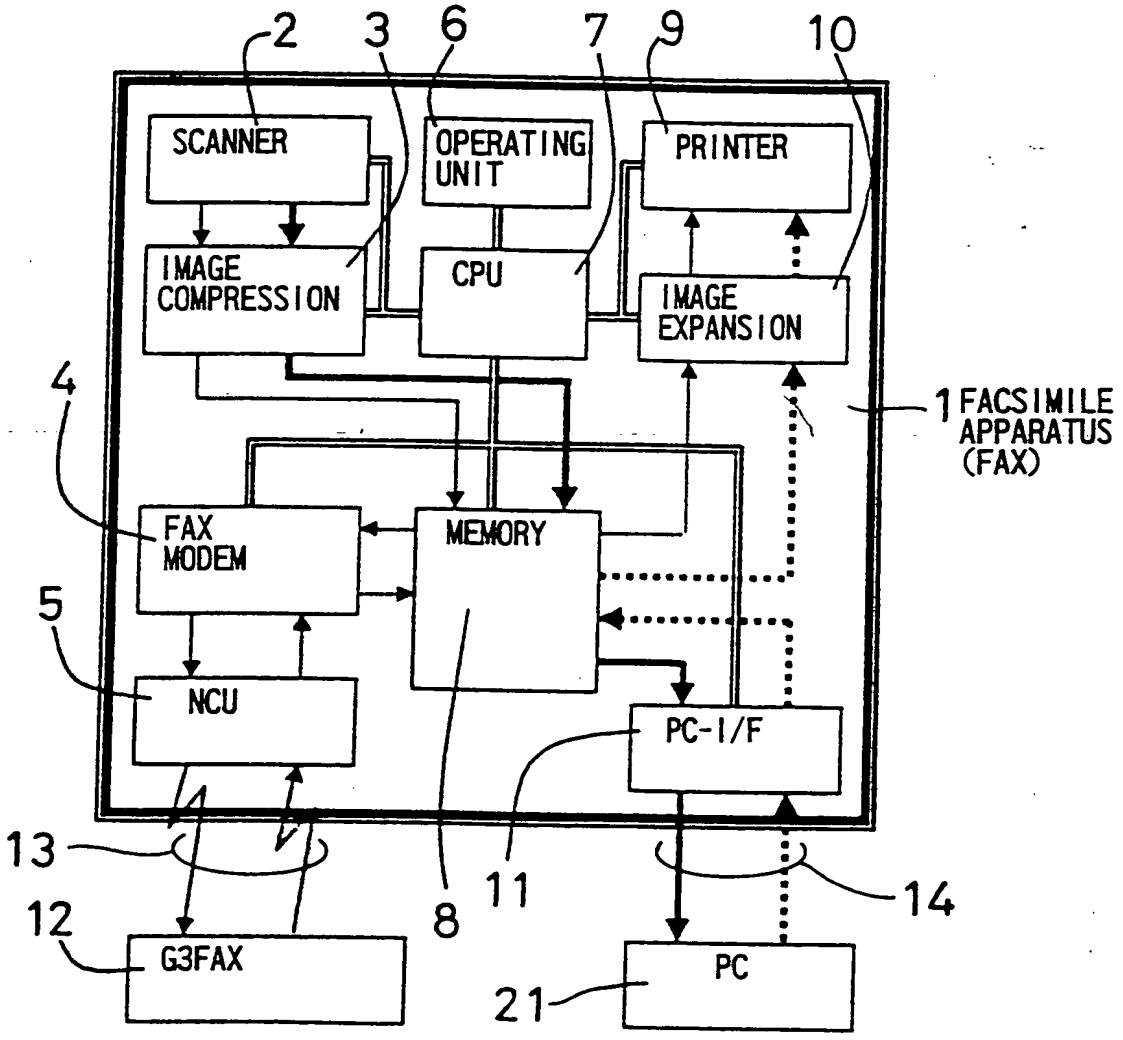
2
3
6
7
9
10
SCANNER
OPERATING UNIT
PRINTER
IMAGE COMPRESSION
CPU
IMAGE EXPANSION
4
1 FACSIMILE APPARATUS (FAX)
FAX MODEM
MEMORY
5
NCU
PC-I/F
13
11
14
12
8
G3FAX
PC
21

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FIG. 2

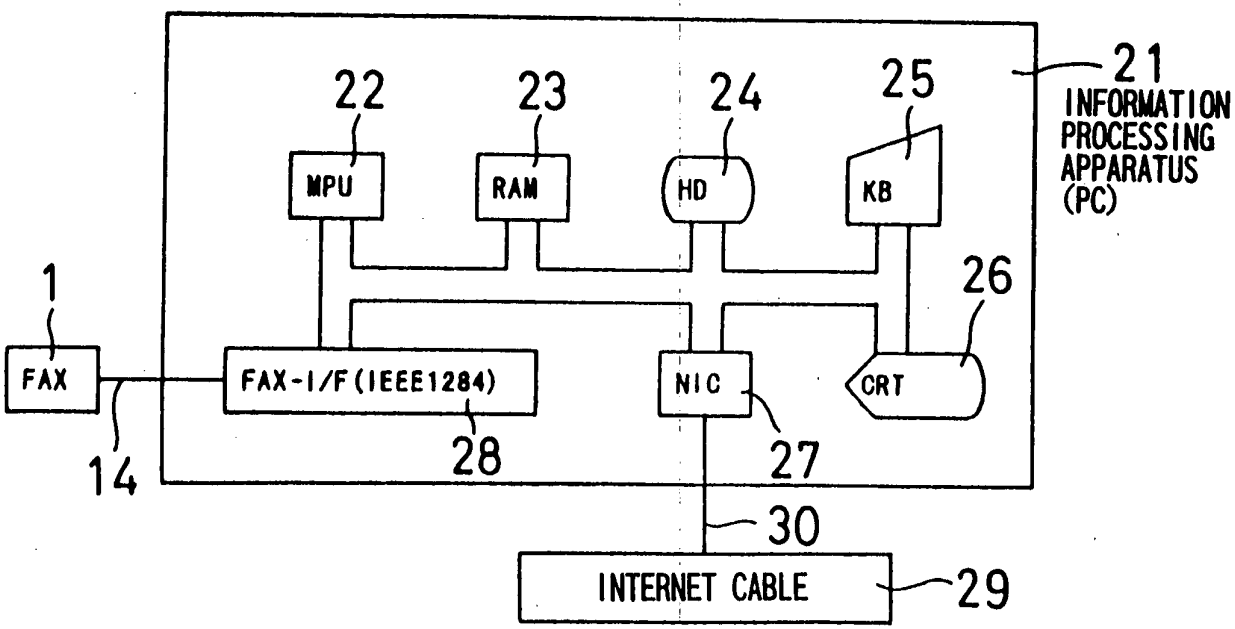

FIG. 3

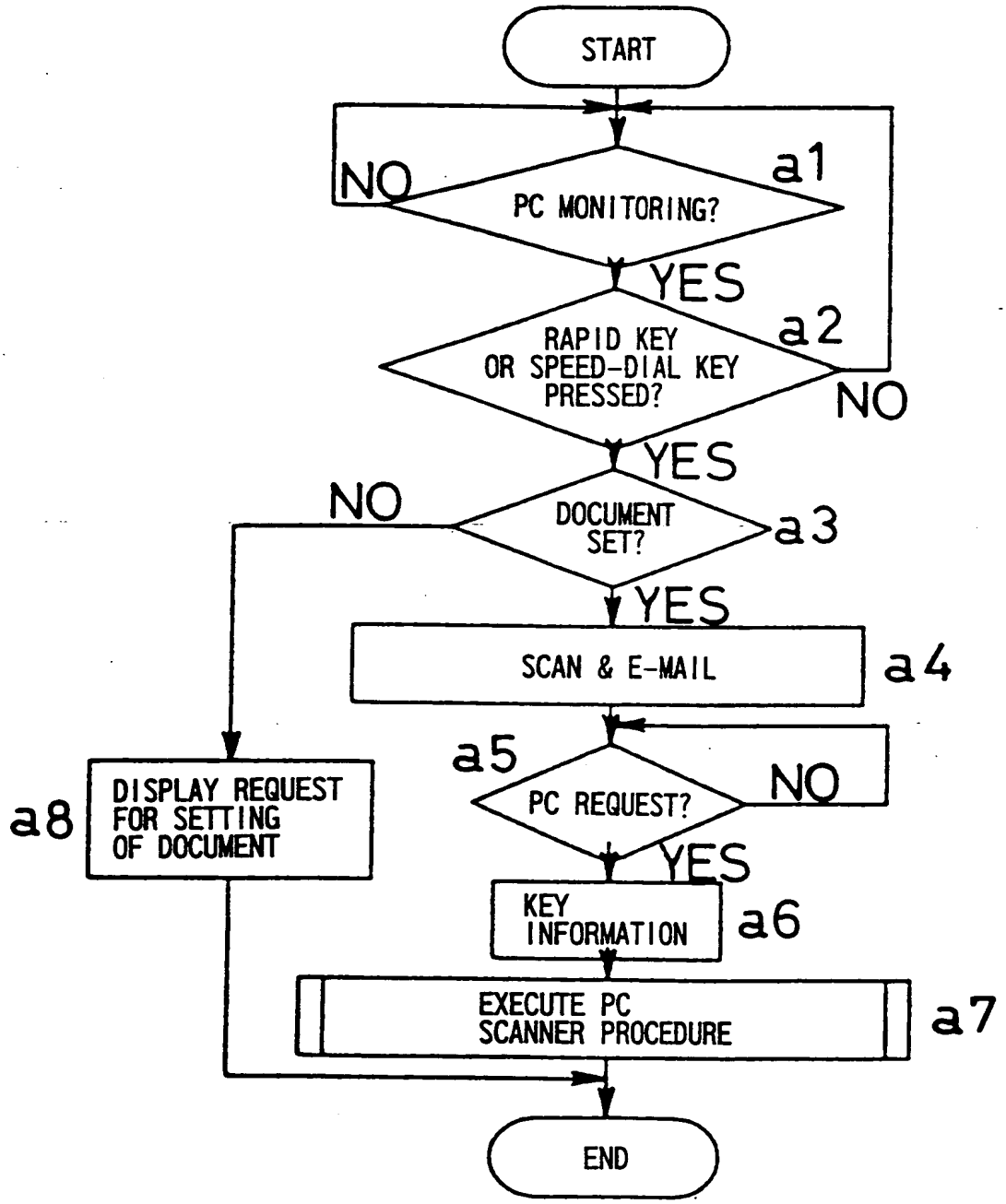
START
NO
a1
PC MONITORING?
YES
RAPID KEY
OR SPEED-DIAL KEY
PRESSED?
a2
NO
YES
NO
DOCUMENT
SET?
a3
YES
SCAN & E-MAIL
a4
a5
PC REQUEST?
NO
YES
a8
DISPLAY REQUEST
FOR SETTING
OF DOCUMENT
KEY
INFORMATION
a6
EXECUTE PC
SCANNER PROCEDURE
a7
END

FIG. 4

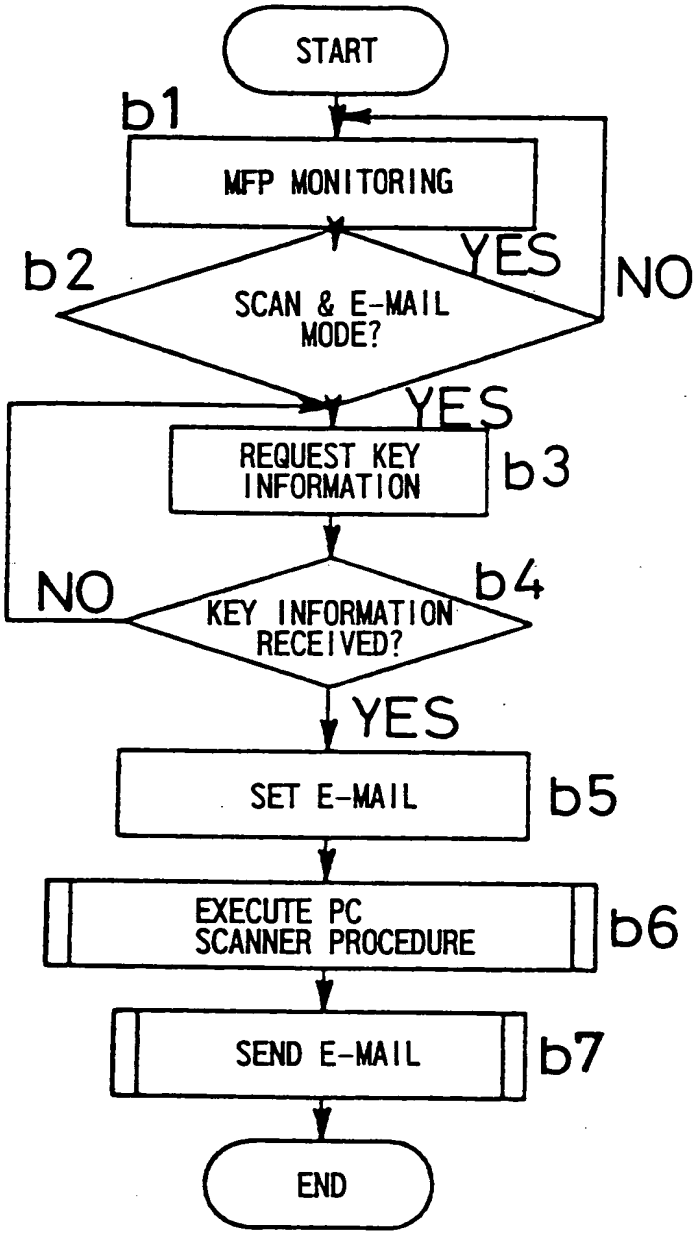
START
b1
MFP MONITORING
b2
SCAN & E-MAIL MODE?
YES
NO
YES
REQUEST KEY INFORMATION
b3
NO
KEY INFORMATION RECEIVED?
b4
YES
SET E-MAIL
b5
EXECUTE PC SCANNER PROCEDURE
b6
SEND E-MAIL
b7
END

FIG. 5

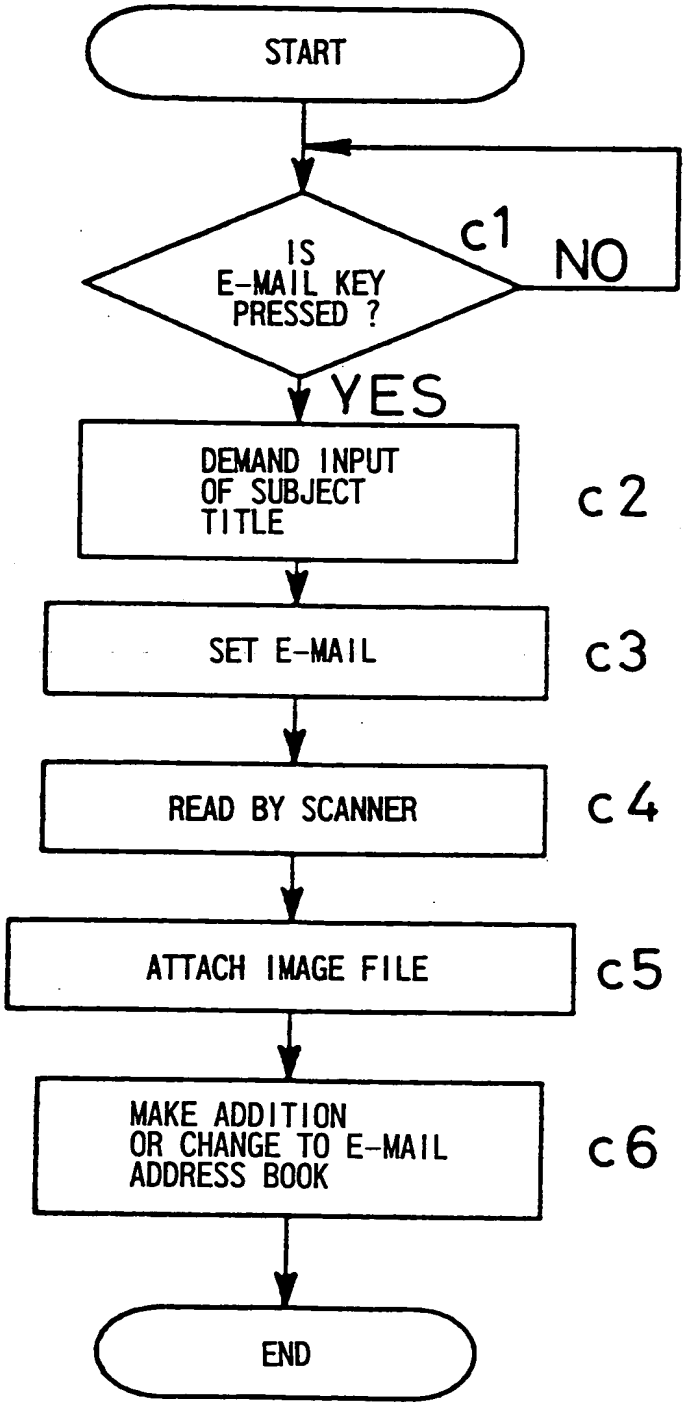
START
IS E-MAIL KEY PRESSED ?
c1
NO
YES
DEMAND INPUT OF SUBJECT TITLE
c2
SET E-MAIL
c3
READ BY SCANNER
c4
ATTACH IMAGE FILE
c5
MAKE ADDITION OR CHANGE TO E-MAIL ADDRESS BOOK
c6
END

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FIG. 6

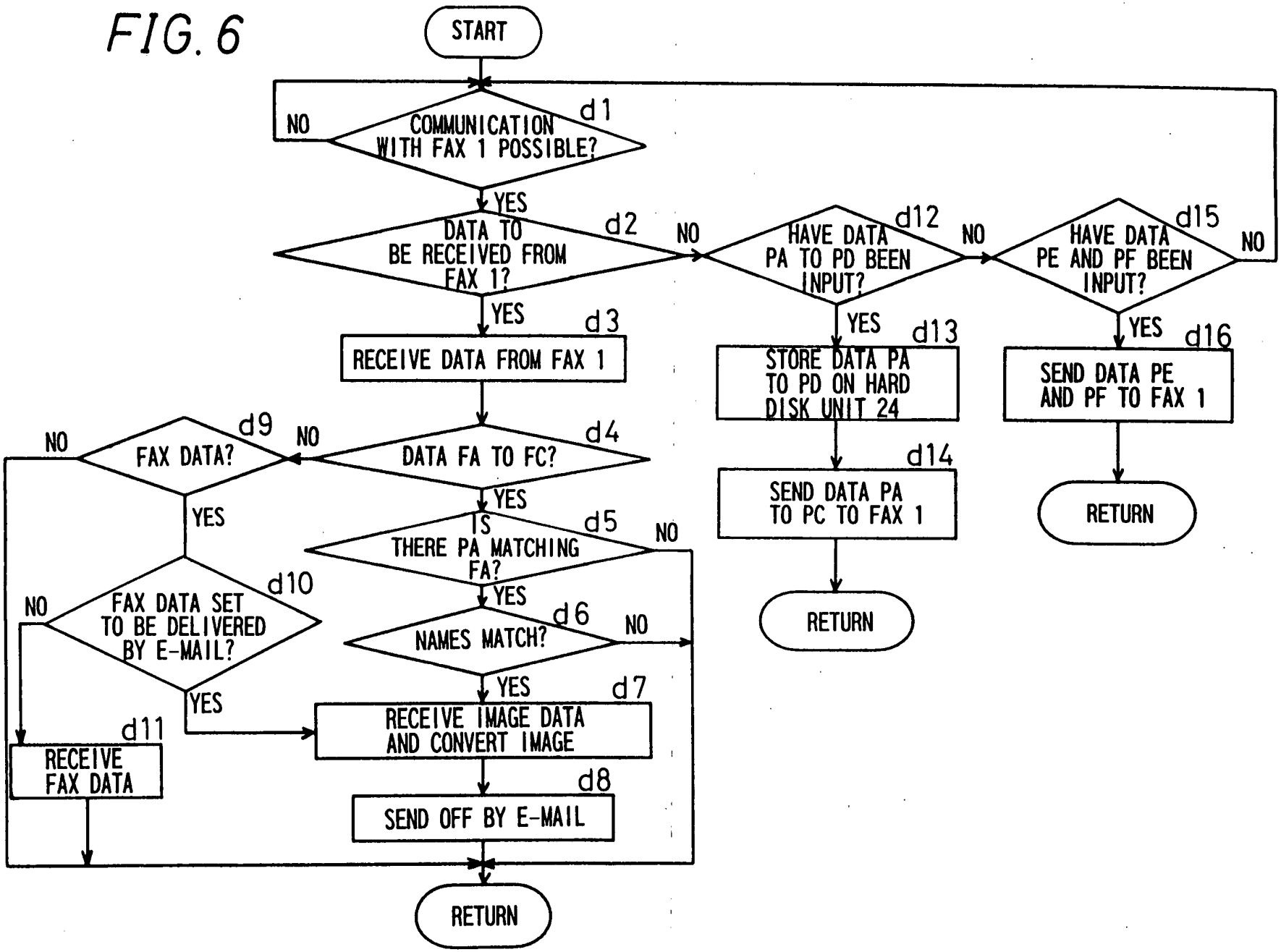

FIG. 7

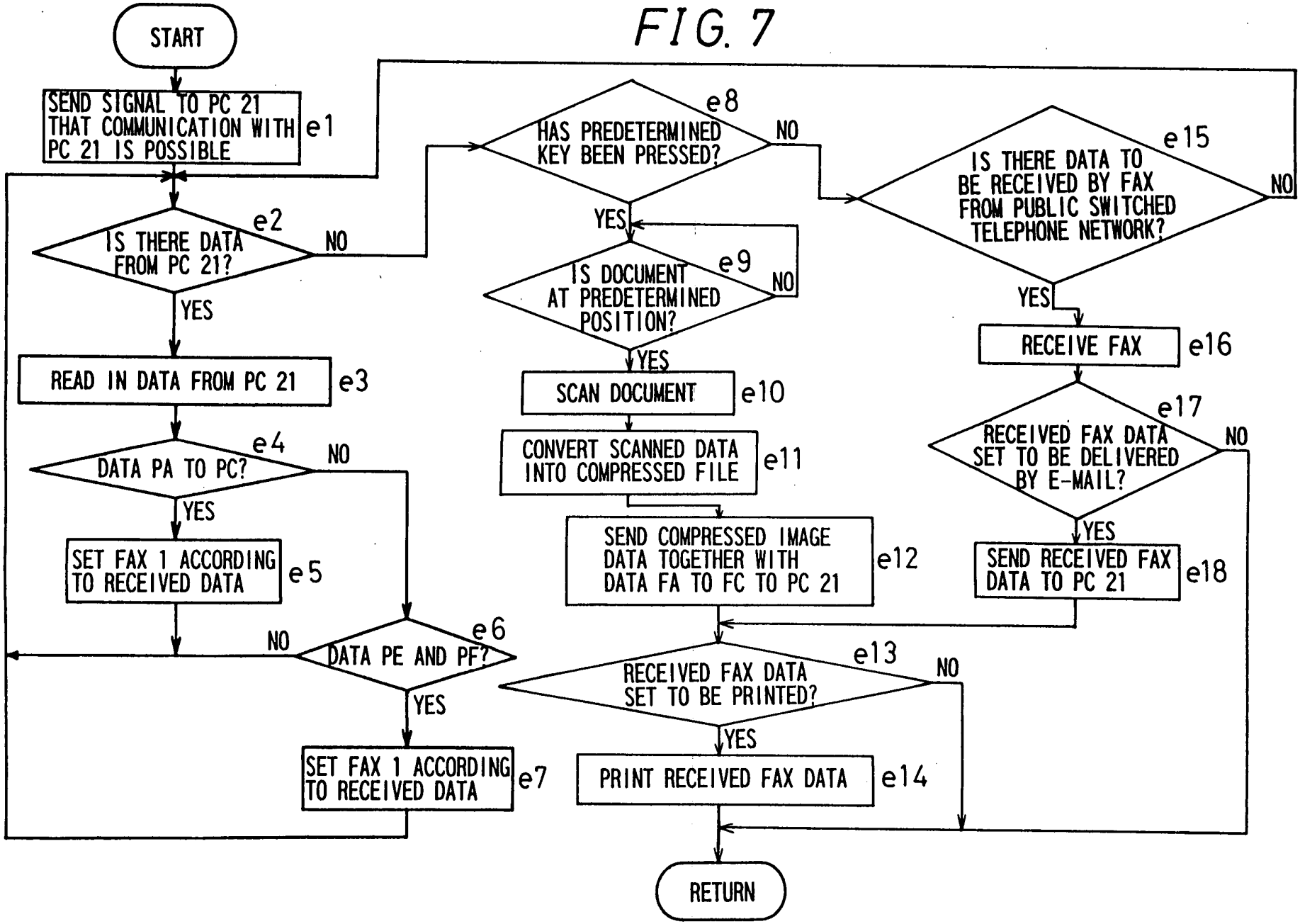
START
SEND SIGNAL TO PC 21 THAT COMMUNICATION WITH PC 21 IS POSSIBLE
e1
IS THERE DATA FROM PC 21?
e2
NO
YES
READ IN DATA FROM PC 21
e3
DATA PA TO PC?
e4
NO
YES
SET FAX 1 ACCORDING TO RECEIVED DATA
e5
DATA PE AND PF?
e6
NO
YES
SET FAX 1 ACCORDING TO RECEIVED DATA
e7
HAS PREDETERMINED KEY BEEN PRESSED?
e8
NO
YES
IS DOCUMENT AT PREDETERMINED POSITION?
e9
NO
YES
SCAN DOCUMENT
e10
CONVERT SCANNED DATA INTO COMPRESSED FILE
e11
SEND COMPRESSED IMAGE DATA TOGETHER WITH DATA FA TO FC TO PC 21
e12
RECEIVED FAX DATA SET TO BE PRINTED?
e13
NO
YES
PRINT RECEIVED FAX DATA
e14
IS THERE DATA TO BE RECEIVED BY FAX FROM PUBLIC SWITCHED TELEPHONE NETWORK?
e15
NO
YES
RECEIVE FAX
e16
RECEIVED FAX DATA SET TO BE DELIVERED BY E-MAIL?
e17
NO
YES
SEND RECEIVED FAX DATA TO PC 21
e18
RETURN

FIG. 8

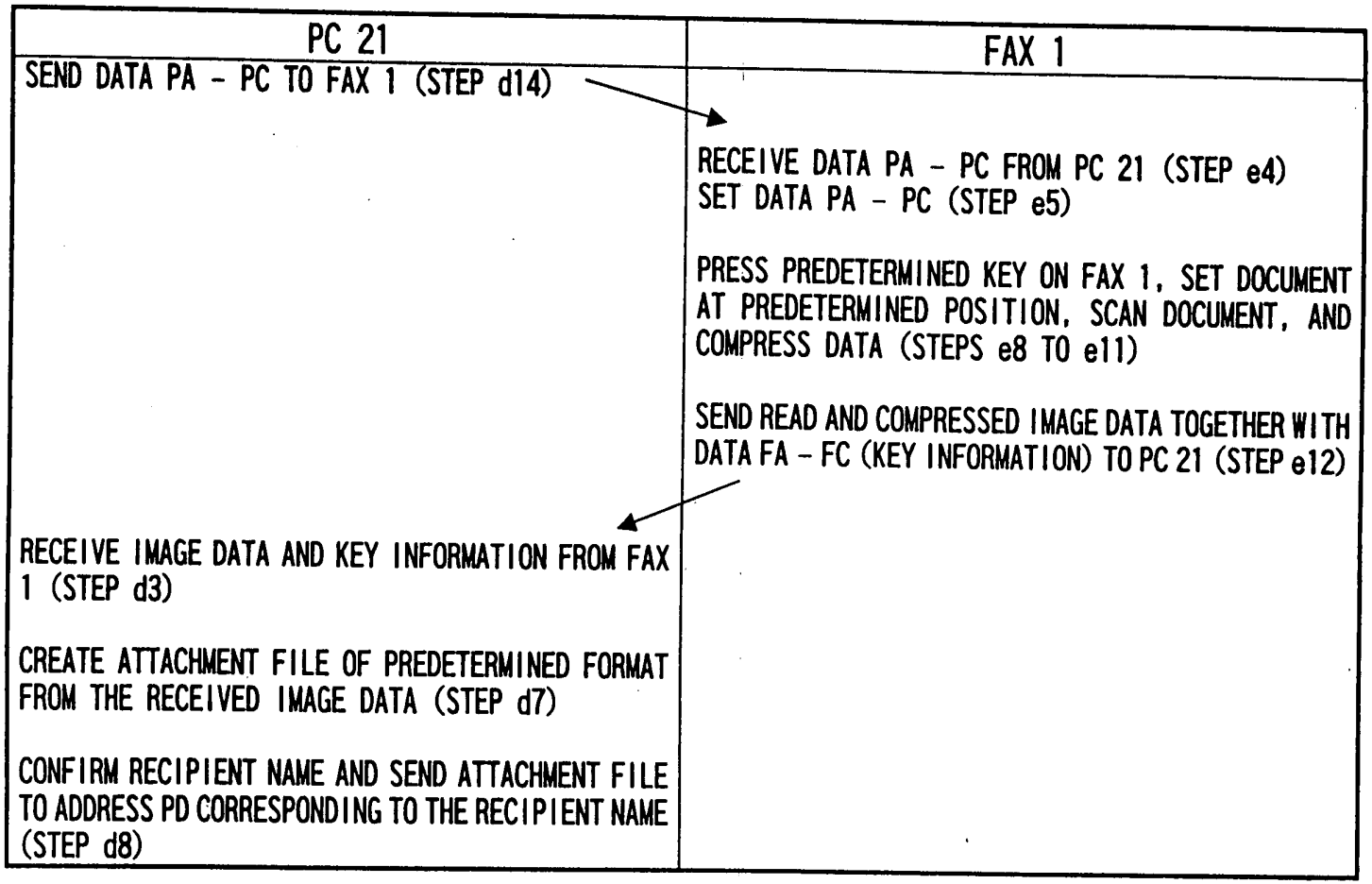
PC 21
FAX 1
SEND DATA PA - PC TO FAX 1 (STEP d14)
RECEIVE DATA PA - PC FROM PC 21 (STEP e4)
SET DATA PA - PC (STEP e5)
PRESS PREDETERMINED KEY ON FAX 1, SET DOCUMENT AT PREDETERMINED POSITION, SCAN DOCUMENT, AND COMPRESS DATA (STEPS e8 TO e11)
SEND READ AND COMPRESSED IMAGE DATA TOGETHER WITH DATA FA - FC (KEY INFORMATION) TO PC 21 (STEP e12)
RECEIVE IMAGE DATA AND KEY INFORMATION FROM FAX 1 (STEP d3)
CREATE ATTACHMENT FILE OF PREDETERMINED FORMAT FROM THE RECEIVED IMAGE DATA (STEP d7)
CONFIRM RECIPIENT NAME AND SEND ATTACHMENT FILE TO ADDRESS PD CORRESPONDING TO THE RECIPIENT NAME (STEP d8)

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FIG. 9

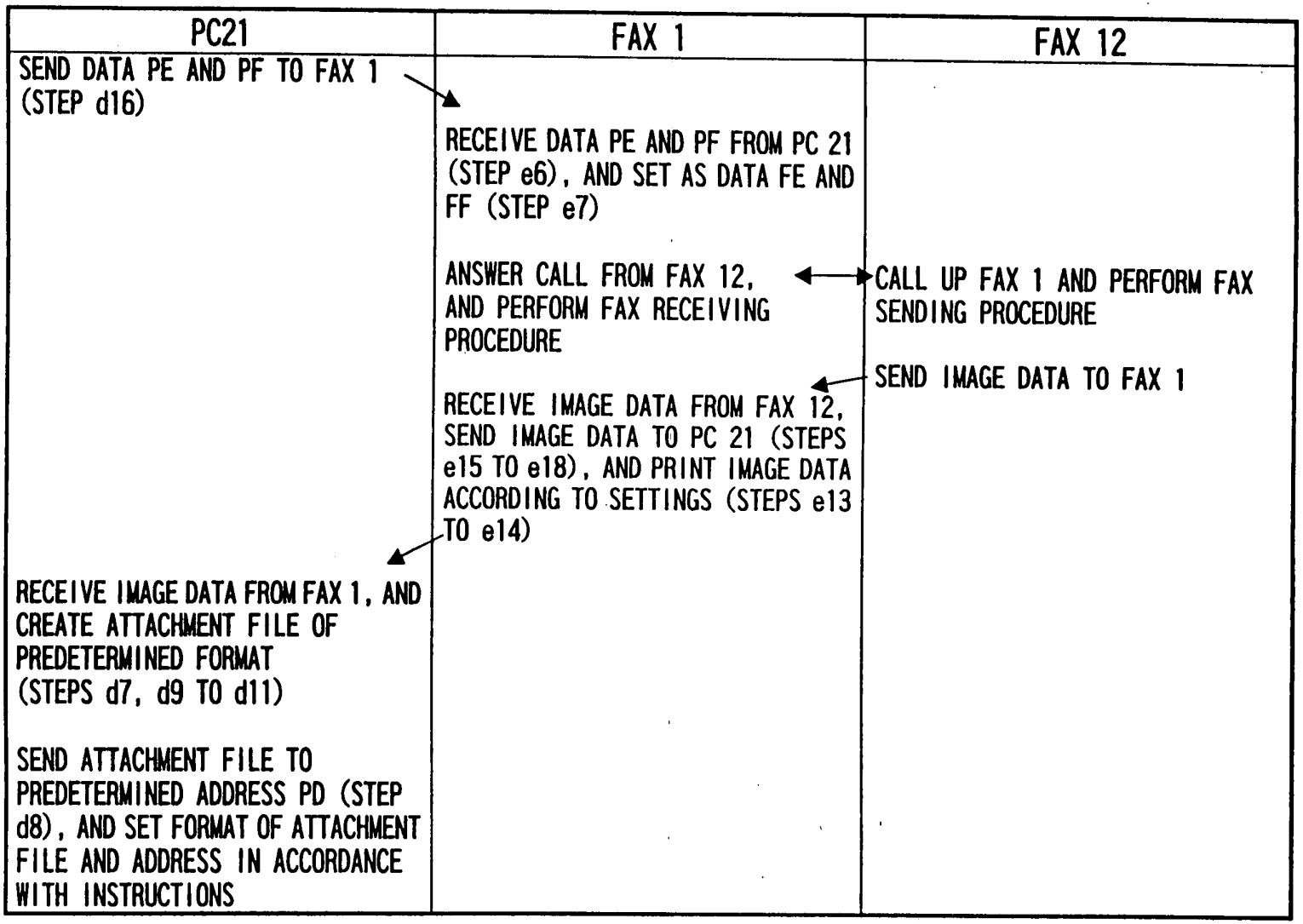

FIG. 10

No (41)	NAME (42)	E-MAIL ADDRESS (43)
1	"ISHIKAWA"	ishikawa@###.####.#####.##.##
2	"SUZUKI"	suzuki@###.####.#####.##.##
3	"SATO"	sato@###.####.#####.##.##
4	"YAMADA"	yamada@###.####.#####.##.##

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FIG. 11

CODE CORRESPONDING TO KEY (44)	NAME (45)	NUMBER (46)
0x10 0x00	0x49 0x53 0x48 0x49 0x4b 0x41 0x57 0x41 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x30 0x37 0x34 0x33 0x35 0x35 0x34 0x30 0x32 0x34 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x11 0x00	0x53 0x55 0x5a 0x55 0x4b 0x49 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x30 0x34 0x35 0x31 0x32 0x33 0x34 0x35 0x36 0x37 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x12 0x00	0x53 0x41 0x54 0x4f 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0xfo 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x13 0x00	0x59 0x41 0x4d 0x41 0x44 0x41 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0xfo 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

FIG. 12

No (47)	NAME (48)	NUMBER (49)
1	"ISHIKAWA"	"0743554024"
2	"SUZUKI"	"0451234567"
3	"SATO"	0xfa
4	"YAMADA"	0xfa

JP06110760A

FIG. 13

PC TELEPHONE NUMBER LIST

Rapid# Speed#	Name	Number
R01	ISHIKAWA	0743-55-4204
R02	SUZUKI	045-123-4567

PC E-MAIL LIST

Rapid# Speed#	Name	Email Setting/Scan Setting
R03	SATO	App :Microsoft Outlook Express Sub :Important message TO :suzuki@sharpeye.com CC :ishikawa@abc.co.jp BCC:amber@mssft.com Scan:200×200dpi, Medium, Letter, LineArt, PCX
R04	YAMADA	App :Netscape Messenger Sub :Network devices TO :bmarf@alaska.com CC :frank@sbc.com BCC:twatt@nbc.com Scan:300×300dpi, Light, A4, Grayscale, BMP

FIG. 14

TELEPHONE NUMBER LIST

AUG – 30 – 1999 MON 12:00 PM

FOR :

RAPID # / SPEED #	NAME	TELEPHONE #	CHAIN DIAL
R01	ISHIKAWA	0743554204	
R02	SUZUKI	0451234567	
R03	SATO	E-MAIL STORED	
R04	YAMADA	E-MAIL STORED	

FIG. 15

FAX SIDE TELEPHONE NUMBER LIST

Rapid # / Speed #	Name	Number
R01	ISHIKAWA	0743-55-4204
R02	SUZUKI	045-123-4567
R03	SATO	E-Mail
R04	YAMADA	E-Mail

EP 0 677 960 A1

FIG. 16

FAX / TEL LIST

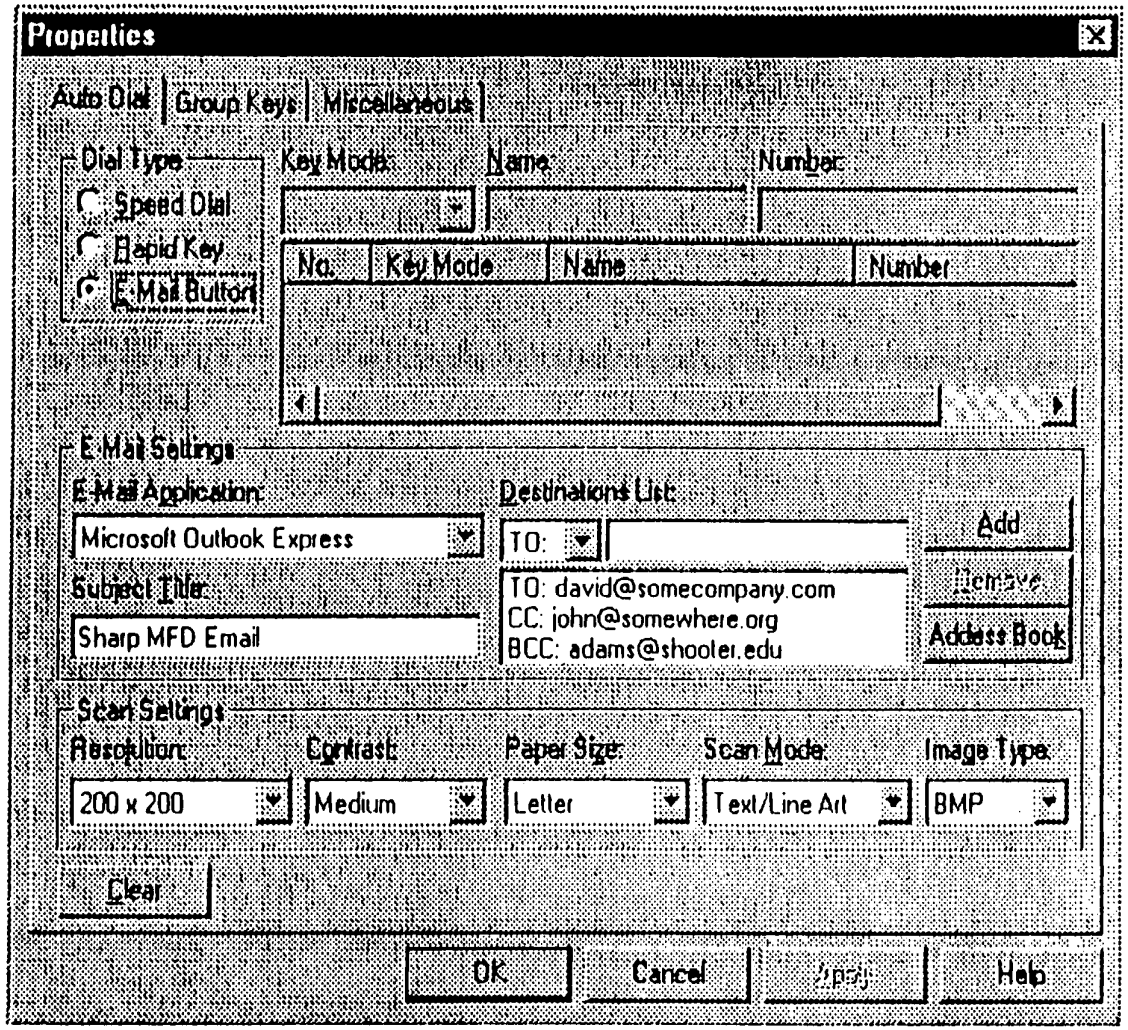
Auto Dial	Name	Number	Mode
S00	Mr Speed	12345678901234567890123456789012	Normal Dial
S01	Harry Kim	425-967-8882	Normal Dial
S03	John Wayne	808-721-0902	Normal Dial
R01	Jim Carson	605-855-7183	Normal Dial
R05	Bart Simpson	660-285-4785	Normal Dial

EMAIL LIST

Auto Dial	Name	Email Setting / Scan Setting
S02	Tom Clark	App : Microsoft Outlook Express Subject: Important message from Sharp TO : maryk@someorg.com CC : jane@somewhere.edu BCC : amyb@webcore.com Scan : 200x200, Medium, Legal, Text/Art Line, PCX
R02	Paul Lee	App : Microsoft Outlook Subject: Daily report from core machine TO : jerryk@echoweb.com Scan : 300x300, Light, A4, Grayscale, BMP

A SAMPLE OF THE AUTO SETTING REPORT

FIG.17



AUTO DIAL SETTINGS (EMAIL BUTTON)

FIG.18 Prior Art

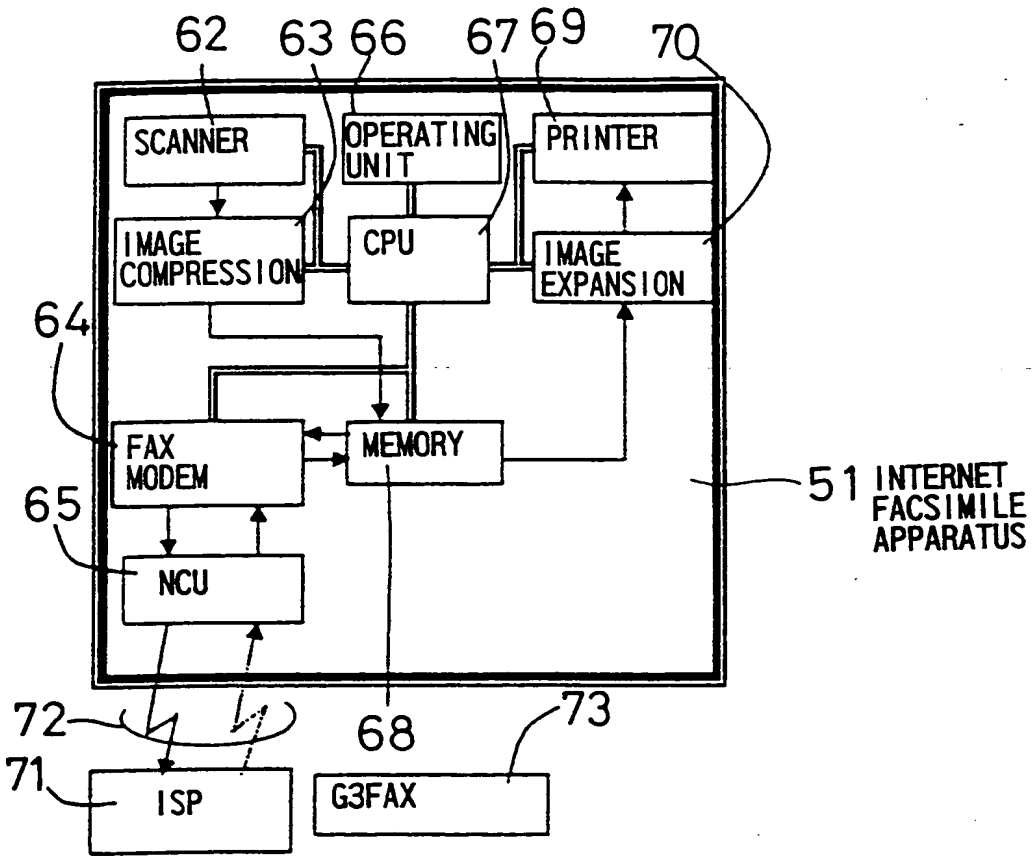


FIG. 19 Prior Art

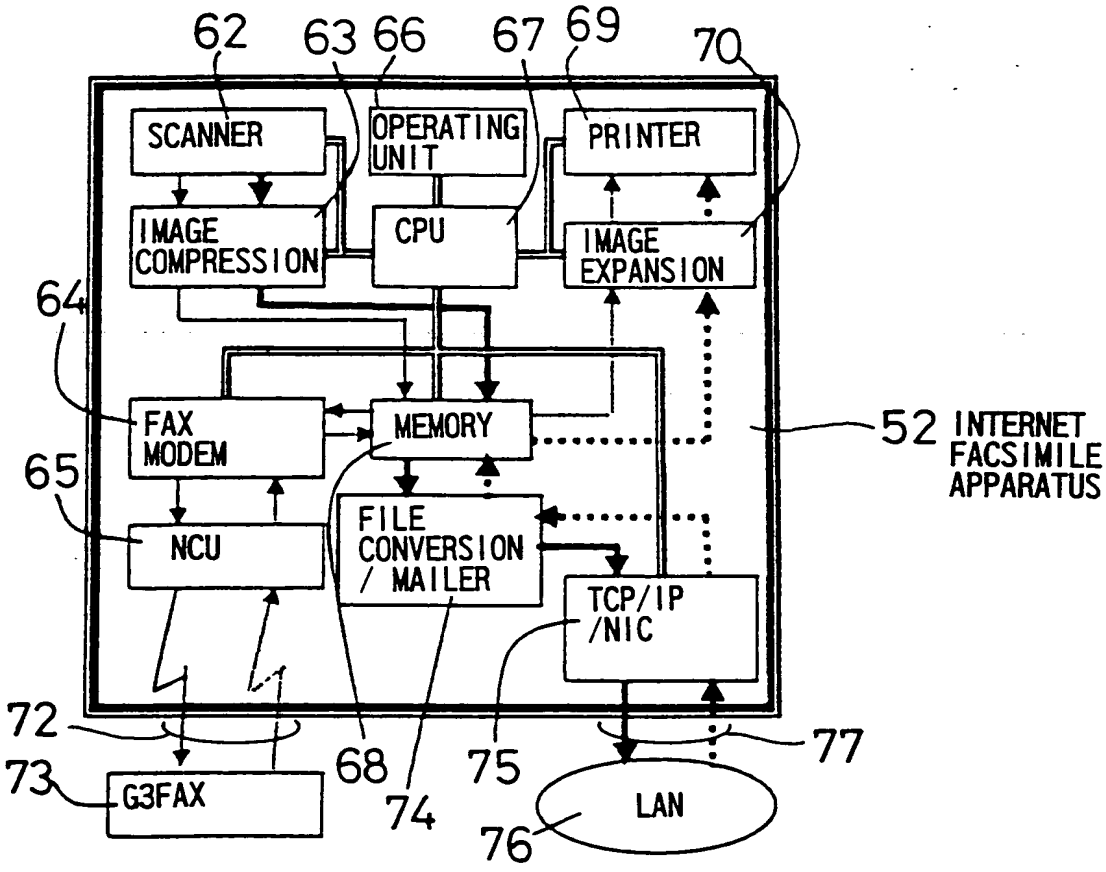
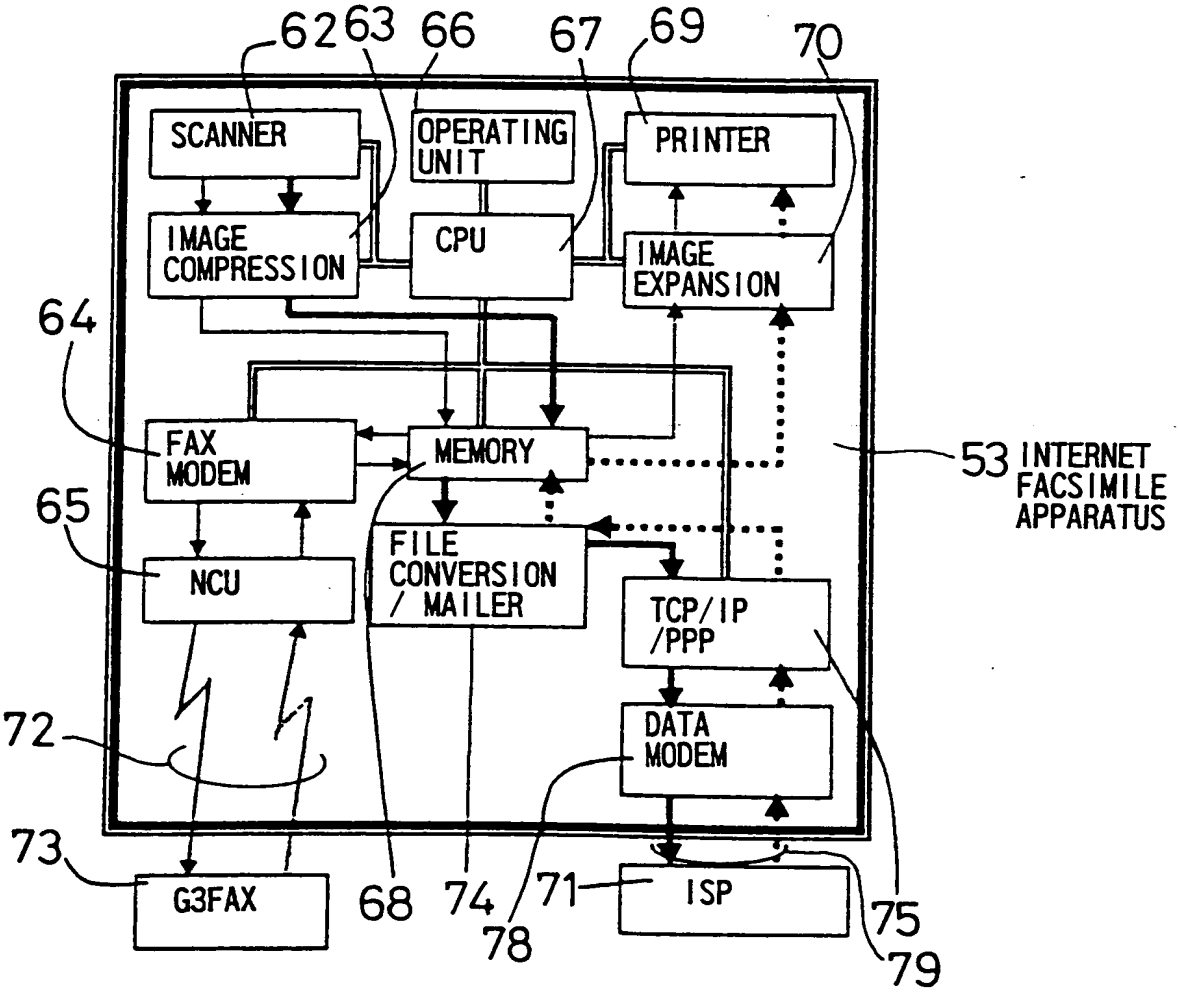



FIG. 20 Prior Art